P&ID/PFD SYMBOLS (GENERAL INSTRUMENT OR FUNCTION SYMBOLS)

LINE TYPES						
FILE NAME	5YMB0L	LINE TYPE	DESCRIPTION			
		CONTINUOUS BOMM	PRIMARY PROCESS FLOW LINE			
		CONTINUOUS .35MM	SECONDARY PROCESS FLOW LINE			
		CONTINUOUS 25MM	INSTRUMENT SUPPLY OR CONNECTION TO PROCESS			
P002		CONTINUOUS	UNDEFINED DIGITAL			
P003		CONTINUOUS	PNEUMATIC SIGNAL *			
		DASHED	ELECTRIC SIGNAL			
P004		CONTINUOUS	HYDRAULIC SIGNAL			
P005	-× ×	CONTINUOUS	CAPILLARY TUBE			
P006	~-~	CONTINUOUS	ELECTROMAGNETIC OR SONIC SIGNAL ** (GUIDED)			
P001	~	CONTINUOUS	ELECTROMAGNETIC OR SONIC SIGNAL ** (NOT GUIDED)			
P007		CONTINUOUS	INTERNAL SYSTEM LINK (SOFTWARE OR DATA LINK			
POOB		CONTINUOUS	MECHANIGAL LINK			
	OPTIONAL BINARY (ON-OFF) SYMBOLS					
PCOB		CONTINUOUS	PNEUMATIC BINARY SIGNAL			
PCOBA		HIDDEN	ELECTRIC BINARY SIGNAL			
P011	EE	CONTINUOUS	ELECTRICAL HEAT TRACING			
P011A		CONTINUOUS/DASHED2	STEAM HEAT TRACING			
		DASHED2	BURIED LINES			
		PHANTOM	EXISTING DENETRATION			
	x	CENTER	FP — FLOOR PENETRATION RP — ROOF PENETRATION WP — WALL PENETRATION SB — SYSTEM BREAK			

NOTES:

"OR" MEANS USER CHOICE. CONSISTANCY IS RECOMENDED.

- * THE PNEUMATIC SIGNAL SYMBOL APPLIES TO A SIGNAL USING ANY GAS AS THE SIGNAL MEDIUM. IF CAS OTHER THAN AIR IS USED, THE GAS MAY BE IDENTIFIED BY A NOTE ON THE SIGNAL SYMBOL OR OTHERWISE.
- ** ELECTROMAGNETIC PHENOMENA INCLUDE HEAT, RADIO WAVES, NUCLEAR RADIATION, AND LIGHT.

INSTRUMENT/FUNCTION SYMBOLS							
	PRIMARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	FIELD MOUNTED	AUXILIARY LOCATION NORMALLY ACCESSIBLE TO OPERATOR	AUXILIARY LOCATION NORMALLY INACCESSIBLE TO OPERATOR			
DISCRETE INSTRUMENTS	P012 XX	P016 (XX)	POZO XX	P024 XXX			
SHARED DISPLAY, SHARED CONTROL	P013	P017 XXX	P021	P025 XXX			
COMPUTER FUNCTION	P014 XX XXX XXX	PO18 XXX XXX XXX	PO22 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	P026 $\left\langle \frac{\overline{XX}}{\overline{XXX}} \right\rangle$			
PROGRAMMABLE LOGIC CONTROL	P015 XXX	P019 XXX	PO23	P027 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
FILE SYMBOL	DESCRIPTION						
P028 ·	FLOW INDICATOR TO BE USED IN CONJUNCTION WITH PO16						
P029 XX XX XXX XXX	INSTRUMENTS SHARING COMMON HOUSING						
PO3D XXX							

FILE NAME	SYMBOL	DESCRIPTION
P031	❖	P-PURGE OR FLUSHING DEVICE R-RESET FOR LATCH-TYPE ACTUATOR I =UNDEFINED INTERLOCK LOGIC
P031A	_	SIGNAL DIRECTIONAL ARROW
P032	X	S=SOLENOID D=DIGITAL P=PILOT T=TRAP M=MAGNETIC FLOWMETER SP=SET POINT
P032A	V	ROOT EXTRACTION
P032B	±	BIAS
P032C	X	MULTIPLY
P032D	<u>></u>	HIGH SELECTING
P032E	<	LOW SELECTING
P032F	<u> </u>	HIGH LIMITING
P032G	≰	LOW LIMITING
P032H	K	PROPORTIONAL
P032I	<u>-K</u>	REVERSE PROPORTIONAL
P032J		SUMMING
P032K		DMDING
P033	CA-1	EQUIPMENT TAG
P034	43	PIPING CLASS BREAK OR ML CLASSIFICATION CHANGE
P035	>× ×-#	PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y—#): FLOW IS TO THAT DRAWING, OR REFERENCE POINT.
P036	X Y-#	PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y-#): FLOW IS FROM THAT DRAWING, OR REFERENCE POINT.
P037		PIPE OR WIRE IS CONTINUED ON DRAWING X (INCLUDING SHEET NUMBER), GRID COORDINATE (Y-#); FLOW IS IN BOTH DIRECTIONS.

